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                                 Query Match
                                                                                                                                                                                                                                                                                                                                     Human signal peptide containing protein W0200000610-A2.
                                                                                                                                                       AAU29123 standard; protein; 89 Human PRO polypeptide sequence WO200168888-A2.
                                                                                                                                                                                                                                                 AAY85679 standard; protein; 89 AA. Human kidney disease associated pr WO200061622-A2.
                                                                                                                                                                                                                                                                                                                                                                                                                                            Membrane-bound
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WO200116318-A2.
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number of hits satisfying
AAB65228 standard; protein; 89
                                                                                                                                                                                                    (INCY-) INCYTE PHARM INC.
ry Match 100.0%;
Local Similarity 100.0%;
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ry Match 100.0%;
t Local Similarity 100.0%;
                                                                                       AAB87550 standard;
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Pred. No. is the number of results predicted by chance to have score greater than or equal to the score of the result being predicted by analysis of the total score distribution.
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                                                                Human PRO polypeptide #75. US2003027163-A1. 06-FEB-2003.
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US2003032112-A1.
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                                                                                                                                  Human secreted/transmembrane US2003040070-A1.
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US2003036159-A1.
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(GETH ) GENENTECH
                 ABU59121 standard; protein; 89 AA. Novel human secreted or transmembrane US2002132252-A1.
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US2003027278-A1.
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GENERAL INFORMATION:
GENERAL INFORMATION:
APPLICANT: Wolkmuth, Wayne
APPLICANT: Volkmuth, Wayne
APPLICANT: Xlinger, Tod, M.
APPLICANT: Xlinger, Tod, M.
APPLICANT: Xlinger, Yalda
APPLICANT: Yalda
APPLICANT: Yalda
APPLICANT: Yalda
CURRENT: PH-010 US
CURRENT FILING DATE: 1999-04-09
NUMBER OF SEQ ID NOS: 12
SOFTWARE: PERL PROGram
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CENGTH: 89
TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
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Pred. No. 2e-51;
Nismatches 0;
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2151, Ap
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PRIOR APPLICATION NUMBER: 60/049787
PRIOR FILING DATE: 1997-06-16
PRIOR PELING DATE: 1997-10-17
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PRIOR APPLICATION NUMBER: 60/062250
PRIOR APPLICATION NUMBER: 60/065186
PRIOR APPLICATION NUMBER: 60/065311
PRIOR APPLICATION NUMBER: 60/066770
PRIOR APPLICATION NUMBER: 60/075945
PRIOR APPLICATION NUMBER: 60/075945
PRIOR PILING DATE: 1998-02-25
PRIOR APPLICATION NUMBER: 60/078910
PRIOR APPLICATION NUMBER: 60/083322
PRIOR PILING DATE: 1998-04-28
PRIOR APPLICATION NUMBER: 60/087106
PRIOR APPLICATION NUMBER: 60/087106
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PRIOR APPLICATION NUMBER: 60/087607
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Patent No. 6911.
Patent INFORMATION:
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TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: P273091CS
CURRENT APPLICATION NUMBER: US/09/991,181
CURRENT FILING DATE: 2001-11-16
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Williams, P. Mickey
Wood, William I.
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Stewart, Timothy A.
Tumas, Daniel
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Gerritsen, Mary E.
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APPLICATION NUMBER: 60/ FILING DATE: 1998-06-04 APPLICATION NUMBER: 60/ FILING DATE: 1998-06-04

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Pred. No. 2e-
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R APPLICATION NUMBER: 60/08
R FILING DATE: 1998-06-12
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60/089514 60/089512 NUMBER: 60/089440

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DR APPLICATION NUMBER: 60/08
R FILING DATE: 1998-06-05
DR APPLICATION NUMBER: 60/08
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DR FILING DATE: 1998-06-10
DR APPLICATION NUMBER: 60/08
DR FILING DATE: 1998-06-11

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DR APPLICATION NUMBER: 60/089538
OR FILING DATE: 1998-06-17
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RESULT 3
Sequence 262, Application US/09990444
Patent No. 6930170
GENERAL INFORMATION:

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CURRENT APPLICATION NUMBER: US/09/990,444
CURRENT FILING DATE: 2001-11-14
PRIOR APPLICATION NUMBER: 60/049787
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PRIOR PILING DATE: 1997-10-17
PRIOR PPLICATION NUMBER: 60/065186
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PRIOR APPLICATION NUMBER: 60/065311
PRIOR FILING DATE: 1997-11-13
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PRIOR APPLICATION NUMBER: 60/075945
PRIOR FILING DATE: 1998-02-25
PRIOR APPLICATION NUMBER: 60/078910
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PRIOR FILING DATE: 1998-02-25
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TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: P2730P1C19
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APPLICATION NUMBER: 60/087759
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FILING DATE: 1998-04-28
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APPLICATION NUMBER: 60/087607
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Baker, Kevin P.
Botstein, David
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Grimaldi, J. Christopher
Gurney, Austin L.
Kljavin, Ivar J.
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Williams, P. Mickey
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art, Timothy A.
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OR APPLICATION NUMBER: 60/088734
OR ETLING DATE: 1998-06-10
OR APPLICATION NUMBER: 60/088738
OR FILING DATE: 1998-06-10
OR APPLICATION NUMBER: 60/088742
OR FILING DATE: 1998-06-10
OR APPLICATION NUMBER: 60/088810
OR APPLICATION NUMBER: 60/088810
OR APPLICATION NUMBER: 60/088824
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OR FILING DATE: 1998-06-05
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OR APPLICATION NUMBER: 60/088212
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APPLICATION NUMBER: 60/088655
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Sequence 262, Application US/09997333
Patent No. 6953836
GENERRAL INFORMATION:
APPLICANT: Ashkenazi, Avi J.
APPLICANT: Baker, Kevin P.
APPLICANT: Botkein, David
APPLICANT: Botsein, David
APPLICANT: Desnoyers, Luc
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OR APPLICATION NUMBER: 60/091478
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OR APPLICATION NUMBER: 60/091544
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OR APPLICATION NUMBER: 60/090676

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OR APPLICATION NUMBER: 60/090678

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BR APPLICATION NUMBER: 60/091978

BR FILING DATE: 1998-07-07

DR APPLICATION NUMBER: 60/091982

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FILING DATE: 1998-06-24
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FILING DATE
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Pred. No. 2e-51;
Mismatches
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APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITIE OF INVENTION: Secreted and Transmembrane
TITIE OF INVENTION: Secreted and Transmembrane
TITIE OF INVENTION: Acids Encoding the Same
FILLE REFERENCE: P2730P1C27
CCURRENT APPLICATION NUMBER: 60/049787
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILLING DATE: 1997-00-17
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILLING DATE: 1997-11-12
PRIOR APPLICATION NUMBER: 60/062311
PRIOR APPLICATION NUMBER: 60/065311
PRIOR APPLICATION NUMBER: 60/066770
PRIOR FILLING DATE: 1997-11-12
PRIOR APPLICATION NUMBER: 60/079910
PRIOR FILLING DATE: 1998-02-25
PRIOR APPLICATION NUMBER: 60/08332
PRIOR APPLICATION NUMBER: 60/08332
PRIOR APPLICATION NUMBER: 60/08332
PRIOR APPLICATION NUMBER: 60/08707
PRIOR FILLING DATE: 1998-03-20
PRIOR FILLING DATE: 1998-05-28
PRIOR APPLICATION NUMBER: 60/087607
PRIOR APPLICATION NUMBER: 60/087607
PRIOR FILLING DATE: 1998-05-29
PRIOR PILLING DATE: 1998-05-02
PRIOR PILLING DATE: 1998-05-02
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OR APPLICATION NUMBER: 60/088029
OR FILING DATE: 1998-06-04
OR APPLICATION NUMBER: 60/088030
OR FILING DATE: 1998-06-04
OR APPLICATION NUMBER: 60/088033
OR FILING DATE: 1998-06-04
OR APPLICATION NUMBER: 60/088326
OR FILING DATE: 1998-06-04
OR APPLICATION NUMBER: 60/088167
OR APPLICATION NUMBER: 60/088167
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OR FILING DATE: 1998-06-05
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erewart, Timothy
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Kljavin, Ivar J.
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Godowski, Paul
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Gerber, Hanspeter
Gerritsen, Mary E.
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60/088217 60/088212

FILING DATE: 1998-06-05 APPLICATION NUMBER: 60/

NUMBER: 60/088655

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RESULT 5
; Sequence 262, Application US/
; Patent No. 6956108
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Botstein, David
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Fong, Sherman
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OR APPLICATION NUMBER: 60/09057
OR APPLICATION NUMBER: 60/09057
OR APPLICATION NUMBER: 60/090676
OR FILING DATE: 1998-06-25
OR APPLICATION NUMBER: 60/090690
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OR APPLICATION NUMBER: 60/090863
OR FILING DATE: 1998-06-25
OR APPLICATION NUMBER: 60/091360
OR FILING DATE: 1998-07-02
OR APPLICATION NUMBER: 60/09154
OR APPLICATION NUMBER: 60/09162
OR APPLICATION NUMBER: 60/09163
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Fong, Sherman
Gerber, Hanspeter
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OR PILING DATE: 1998-06-10
OR APPLICATION NUMBER: 60/088810
OR APPLICATION NUMBER: 60/088810
OR APPLICATION NUMBER: 60/088826
OR FILING DATE: 1998-06-10
OR APPLICATION NUMBER: 60/088856
OR FILING DATE: 1998-06-10
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OR APPLICATION NUMBER: 60/087609
OR FILING DATE: 1998-06-02
OR APPLICATION NUMBER: 60/087759
OR APPLICATION NUMBER: 60/087827
OR FILING DATE: 1998-06-03
OR APPLICATION NUMBER: 60/08021
OR APPLICATION NUMBER: 60/08021
OR APPLICATION NUMBER: 60/08025
OR FILING DATE: 1998-06-04
OR APPLICATION NUMBER: 60/08026
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OR FILING DATE: 1998-06-04
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OR APPLICATION NUMBER: 60/08032
OR APPLICATION NUMBER: 60/08032
OR APPLICATION NUMBER: 60/080167
OR APPLICATION NUMBER: 60/080202
OR FILING DATE: 1998-06-05
OR APPLICATION NUMBER: 60/080212
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OR FILING DATE: 1997-11-24
OR APPLICATION NUMBER: 60/075945
OR FILING DATE: 1998-02-25
OR APPLICATION NUMBER: 60/078910
OR FILING DATE: 1998-03-20
OR APPLICATION NUMBER: 60/083322
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DR APPLICATION NUMBER: 60/049787
DR FILING DATE: 1997-06-16
DR APPLICATION NUMBER: 60/062250
DR FILING DATE: 1997-10-17
DR APPLICATION NUMBER: 60/065186
DR APPLICATION NUMBER: 60/065186
DR APPLICATION NUMBER: 1997-11-12
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NR FILING DATE: 1998-05-07

NR FILING DATE: 1998-05-07

NR APPLICATION NUMBER: 60/087106

NR FILING DATE: 1998-05-28

NR FILING DATE: 1998-06-07

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INVENTION:
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Goddard, Audrey
Godowski, Paul J
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DATE: 1997-11-13
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OR FILING DATE: 1998-06-16
OR APPLICATION NUMBER: 60/089532
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OR FILING DATE: 1998-06-17
OR APPLICATION NUMBER: 60/089598
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PR FILLING DATE: 1998-06-10
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FILING DATE: 1998-06-24 APPLICATION NUMBER: 60/ FILING DATE: 1998-06-24

60/090535

APPLICATION NUMBER: 60/090540 FILING DATE: 1998-06-24

APPLICATION NUMBER: 60/090542

1998-06-24

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APPLICANT: Watson, James G.

APPLICANT: Murison, James G.

TITLE OF INVENTION: Polynucleotides, polypeptides expressed

TITLE OF INVENTION: by the polynucleotides and methods for thei

FILE REFERENCE: 11000.105001

CURRENT APPLICATION NUMBER: US/09/724,864

CURRENT FILING DATE: 2000-11-28

PRIOR APPLICATION NUMBER: US. No. 6380362 60/171,678

PRIOR APPLICATION NUMBER: US. No. 6380362 60/171,678

PRIOR FILING DATE: 1999-12-23

NUMBER OF SEQ ID NOS: 72

SOPTWARE: FastSEQ for Windows Version 4.0
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Best Local S
Matches 89
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APPLICATION NUMBER: 60/092182
FILING DATE: 1998-07-09
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APPLICATION NUMBER: 60/091633
FILING DATE: 1998-07-02
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FILING DATE: 1998-06-26
APPLICATION NUMBER: 60/091360
FILING DATE: 1998-07-01
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APPLICATION NUMBER: 60/090862
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FILING DATE: 1998-06-25
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100.0%; Pred. No. 2e-51;
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                                                                                                             US-08-725-531-5
                                                       Query Match
Best Local S
Matches 56
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TELEPAX: 415-845-4166
INFORMATION FOR SEQ ID NO: 5
SEQUENCE CHARACTERISTICS:
LENGTH: 87 amino acids
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Best Local Similarity 66.7
Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GENERAL INFORMATION:
                                                                                                                          TOPOLOGY: linear MOLECULE TYPE: pept IMMEDIATE SOURCE: LIBRARY: GenBank CLONE: 951423
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REFERENCE/DOCKET NUMBER: PF-
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                        FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Billings, Lucy J.
.REGISTRATION NUMBER: 36,
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FILING DATE: Filed Herewith
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                    CURRENT APPLICATION DATA
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ZIP: 94304
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskett
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: Bandman, Olga
APPLICANT: Goli, Surya K.
TITLE OF INVENTION: NOVEL HUMAN PHOSPHOLEMMAN-LIKE PROTEIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                COMPUTER: IBM Com
OPERATING SYSTEM:
SOFTWARE: FastSEQ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CORRESPONDENCE ADDRESS
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                                                                                                                                                                                             TYPE: amino acid
STRANDEDNESS: sin
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STATE: CA
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                                                                     Similarity
MERVTIA-LLLLAGLTALEANDPFANKDDFFYYDWKNLQLSGLICGGLLAIAGIAAVLSG
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                                                                                                                                                                                                                                                                                                                                                                                                                                                    FastSEQ Version 1.5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              IBM Compatible
                                                                                                                                                                                                                                                                                 415-855-0555
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Diskette
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                                                                    55.6%;
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                                                                                                                                                                                                                                                                                                             PF-0128
                                                       Score 256.5; DB 1
Pred. No. 3.2e-25;
1; Mismatches 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 276.5; DE Pred. No. 9e-28; B; Mismatches
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                                                                                 DB 1;
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                                                                                 Length
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                                                                                    87;
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                                                       Gaps
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US-09-213-392-5
; Sequence 5, Application US/09; Parent No. 5945505
; Parent INFORMATION:
GENERAL INFORMATION:
APPLICANT: Bandman, Olga
APPLICANT: Goli, Surya K
TITLE OF INVENTION: NOVE
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US-08-738-127-5
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                                                                                                                                RESULT 9
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ATTORNEY/AGENT INFORMATION:
NAME: Billings, Lucy J.
NAME: Billings, Lucy J.
REGISTRATION NUMBER: 36,749
REFERENCE/DOCKET NUMBER: PF-01
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-855-0555
TELEPHONE: 415-845-4166
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 87 amino acids
TYPE: amino acids
TYPE: amino acids
TYPE: amino acids
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Patent No. 5919655
GENERAL INFORMATI
                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local :
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SOFTWARE: FASTSEQ Version 1.5
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/738,127
FILING DATE: Filed Herewith
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
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MEDIUM TYPE: Diskett
COMPUTER: IBM Compat
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CITY: Palo Alto
CTATE: CA
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APPLICANT: Hawkins, Phillip R.
TITLE OF INVENTION: NOVEL HUMAN PHOSPHOLEMMAN HOMOLOG
NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CORRESPONDENCE ADDRESS:
ADDRESSEE: Incyte Ph
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               STRANDEDNESS:
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                                                                                                                                                                                                                                                                                                              h 55.6%; Score 256.5; DB 1; Similarity 61.5%; Pred. No. 3.2e-25; 56; Conservative 11; Mismatches 17;
                                                                                                                                                                                                                                                MEGITCAFLLVLAGLEVLEANGE-VDKGSPFYYDWESLQLGGMIFGGLLCIAGIAMALSG
                                                                                              Application US/09213392
                                                                                                                                                                                                            KCKYKSSQKQHSP--VPEKAIPLITPGSATT 88
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                                                Bandman, Olga
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SYSTEM: DOS
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                 NOVEL HUMAN PHOSPHOLEMMAN-LIKE PROTEIN
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                                                                                                                                                                                                                                                                                                                                              Length 87;
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Best Local
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LIBRARY: GenBa
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                                                                                                                 COUNTRY: U
ZIP: 94304
                                                                                                                                                  STATE:
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CITY: Palo Alto
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Sequence 5, Application US/09083661
PATENT NO. 5955283
GENERAL INFORMATION:
APPLICANT: Bandman, Olga
APPLICANT: Goll, Surya K.
TITLE OF INVENTION: MOVEL HUMAN PHOSPHOLEMMAN-LIKE PROTEIN
NUMBER OF SEQUENCES: 6
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INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOPTWARE: FASTESQ VERSION 1.5
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/083,60
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TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-855-0555
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NAME: Billings, Lucy J.
REGISTRATION NUMBER: 36,749
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PRIOR APPLICATION DATA:
APPLICATION NUMBER: 09/083,661
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SOFTWARE: FastSEQ Version 1.5
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/213,392
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ADDRESSEE: Incyte Pharmaceuticals, Inc.
STREET: 3174 Porter Drive
                                                                                                                                                                                                                                                                                 CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           / Match 55.6%; Score 256.5; DB 1; Local Similarity 61.5%; Pred. No. 3.2e-25; nes 56; Conservative 11; Mismatches 17;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TYPE: amino acid
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3174 Porter Drive
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    US/09/083,661
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US-08-289-247B-4
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INFORMATION FOR SEQ ID NO: 5
SEQUENCE CHARACTERISTICS:
LENGTH: 87 amino acide
TYPE: amino acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 4, Application US/08289247B Patent No. 5728579
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Best Local Similarity
                                                                                                                                                                                    ZIP: 02110-2223

COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
COMPUTER: IBM PS/2 Model 50Z or 55SX
OPERATING SYSTEM: MS-DOS (Version 5.0)
SOFTWARE: WordPerfect (Version 5.1)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/289,247B
FILING DATE: August 11, 1994
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GENERAL INFORMATION:
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NAME: Billings, Lucy J.
REGISTRATION NUMBER: 36,749
REFERENCE/DOCKET NUMBER: PF.
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-855-0555
                                             NAME: Bleker-Brady, Kristina REGISTRATION NUMBER: 39,109 REGERENCE/DOCKET NUMBER: 00383/021001 TELECOMMUNICATION INFORMATION: TELEPHONE: (617) 428-0200
                                                                                                                                                                                                                                                                                                                                                                                                                                        NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
ADDRESSEE: Clark & Elbing LLP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: Morrison, Briggs W.
APPLICANT: Leder, Philip
TITLE OF INVENTION: Detection and Treatment of Breast
TITLE OF INVENTION: Cancer
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LIBRARY: GenBa
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                                                                                                                                                                         APPLICATION NUMBER:
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LICATION NUMBER:
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951423
                                                                                                                                                                                                                                                                                                                                                                                        Massachusetts
                                                                                                                                                                                                                                                                                                                                                                                                                         176 Federal Street
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US-08-725-531-4
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                                                           Best Loc
Matches
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                                                                                         Query Match
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APPLICANT: Bandman, Olga
APPLICANT: Goli, Surya K
                                                                                                                                                                                                                                                                             TELEFAX: 415-845-4166
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                  TOPOLOGY: line MOLECULE TYPE: p
                                                                                                                                                                                                                                                               SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                       NAME: Billings, Lucy J.
REGISTRATION NUMBER: 36,749
REFERENCE/DOCKET NUMBER: PF-
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                 SOFTWARE: FastSEQ Version 1.5
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/725,531
FILING DATE: Filed Herewith
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ZIP: 94304
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskett
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                                                                                                                                                                                                                                                                                                                                                                                        ATTORNEY/AGENT INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TITLE OF INVENTION: NOVEL HUMAN PHOSPHOLEMMAN-LIKE PROTEIN NUMBER OF SEQUENCES: 6
                                                                                                                        MEDIANY: GELLIBRARY: GELLIBRARY: 1085026
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            STREET:
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STRANDEDNESS: si
TOPOLOGY: linear
                                                                        Local Similarity
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OPERATING SYSTEM:
                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COUNTRY: U.S.
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                                                                                                                                                                                                               STRANDEDNESS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Palo Alto
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                MERVTLALLL-LAGLTALEANDPFANKDDPFYYDWKNLQLSGLICGGLLAIAGIAAVLSG
MQKVTLGLLVFLAGFPVLDAND-LEDKNSPFYYDWHSLQVGGLICAGVLCAMGIIIVMSA 59
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linear
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ilarity 54.5%;
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54.5%; Pred. No. 7.9;
tive 11; Mismatches
                                                             11;
                                                         Score 214.5; DB 1
Pred. No. 7.9e-20;
1; Mismatches 24
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                                                                                        Length 87;
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RESULT 14
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US-08-738-127-4
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Sequence 4, Application US/09213392
Patent No. 5945505
GENERAL INFORMATION:
APPLICANT: Bandman, Olga
APPLICANT: Goli, Surya K.
TITLE OF INVENTION: NOVEL HUMAN PHOSPHOLEMMAN-LIKE PROTEIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 4, Application US/08738127 Patent No. 5919655
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Best Local 9
                                                                                                                                                                                                                                                                                              Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TELEFAX: 415-845-4166
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 87 amino acids
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NAME: Billings, Lucy J.
REGISTRATION NUMBER: 36,749
REFERENCE/DOCKET NUMBER: PF-0
TELECOMMUNICATION INFORMATION:
TELECHONE: 415-855-555
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IMMEDIATE SOURCE:
LIBRARY: GenBan
CLONE: 1085026
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICATION NUMBER: US/08/738,127 FILING DATE: Filed Herewith PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                COMPUTER READABLE FORM:
MEDIUM TYPE: Diskett
COMPUTER: IBM Compat
COMPATING SYSTEM: DO
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APPLICANT: Hawkins, Phillip R.
TITLE OF INVENTION: NOVEL HUMAN PHOSPHOLEMMAN HOMOLOG
NUMBER OF SEQUENCES: 6
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CURRENT APPLICATION DATA:
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ADDRESSEE: Incyte Pharmaceuticals, Inc.
STREET: 3174 Porter Drive
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STRANDEDNESS: BILL
STRANDEDNESS: BILL
TYPE:
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CITY: Palo Alto
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SYSTEM: DOS
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                                                                                                                                                                                                                                                                                            Sequence 4, Application US/09083661 Patent No. 5955283
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Best Local
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INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 87 amino acide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        MOLECULE TYPE: peptide IMMEDIATE SOURCE: LIBRARY: GenBank CLONE: 1085026
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MEDIUM TYPE: Diskette
                                                                COMPUTER READABLE FORM: MEDIUM TYPE: Diskett
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                                                                                                               STATE: C
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CITY: Palo Alto
STATE: CA
                  COMPUTER: IBM COR
OPERATING SYSTEM:
SOFTWARE: FABLSE(
                                                                                                                                               STREET: 3174 Por
CITY: Palo Alto
                                                                                                 ZIP: 94304
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   ARE: FastSEQ Version 1.5
APPLICATION DATA:
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OPERATING SYSTEM: DOS
SOFTWARE: FASTSEQ Version 1.5
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/213,392
FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 09/083,661
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Billings, Lucy J.
REGISTRATION NUMBER: 36,749
REGISTRATION NUMBER: 46,749
REGISTRATION NUMBER: 46,749
                                                                        GENERAL INFORMATION:
APPLICANT: Bandman, Olga
APPLICANT: Bald, Surya K.
TITLE OF INVENTION: NOVEL HUMAN PHOSPHOLEMMAN-LIKE PROTEIN
NUMBER OF SEQUENCES: 6
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ADDRESSEE: Incyte Pharmaceuticals, Inc
STREET: 3174 Porter Drive
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                                                                                                                                                                                                                                                                                                                                                                   KCKCKFGQKSGHH---PGETPPLITPGSA 85
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    MQKVTLGLLVFLAGFPVLDAND-LEDKNSPFYYDWHSLQVGGLICAGVLCAMGIIIVMSA 59
3: Incyte Pharmaceuticals, Inc
3174 Porter Drive
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ; Score 214.5; DB 1; ; Pred. No. 7.9e-20; 11; Mismatches 24;
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APPLICATION NUMBER: US/09/083,661

PILING DATE:

PRIOR APPLICATION DATA:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/725,531

PILING DATE:

APPLICATION NUMBER: 08/725,531

PILING DATE:

APPLICATION NUMBER: 08/725,531

PILING DATE:

NAME: Billings, Lucy J.

REGISTRATION NUMBER: 36,749

REGISTRATION NUMBER: PF-0128 US

TELEPONUMINICATION INFORMATION:

TELEPAN: 415-855-055

TELEPAN: 415-855-055

TELEPAN: 415-854-055

TELEPAN: 415-845-4166

INFORMATION POR SEQ ID NO: 4:

SEQUENCE CHARACTERISTICS:

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Minimum DB
Maximum DB
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Maximum Match 100%
Listing first 1500 summaries
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Match
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   1867569 seqs, 417829326 residues
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1: /cgn2_6/prodata/1/pubpaa/US07_PUBCOMB.pep:*

2: /cgn2_6/prodata/1/pubpaa/US08_PUBCOMB.pep:*

3: /cgn2_6/prodata/1/pubpaa/US10A_PUBCOMB.pep:*

4: /cgn2_6/prodata/1/pubpaa/US10A_PUBCOMB.pep:*

5: /cgn2_6/prodata/1/pubpaa/US11_PUBCOMB.pep:*
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    GenCore version 5.1.6 (c) 1993 - 2005 Compugen Ltd
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4 US-10-063-742-50
5 US-10-972-317-50
5 US-10-972-317-50
5 US-10-926-077-212
4 US-10-295-027-212
4 US-10-295-027-212
4 US-10-295-027-136
6 US-10-295-027-136
6 US-10-177-293-166
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6 US-10-177-293-168
7 US-10-161-493-32
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C;Species: Homo sanianc /---
                 Na+/K+-exchanging ATPase (EC 3.6.3.9) gamma chain - C;Species: Bos primigenius taurus (cattle) C;Date: 31-Dec-1993 #sequence_revision 03-Feb-1994 #C;Accession: D46435; S31525
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cAMP-dependent protein kinase major membrane substrate precursor - dog
c/Species: Canis lupus familiaris (dog)
C/Date: 28-Feb-1992 #sequence_revision 28-Feb-1992 #text_change 09-Jul-2004
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                                                                                                                                                                                                                                                         27.4%; Score 126.5; DB 2;
41.4%; Pred. No. 7.1e-07;
tive 15; Mismatches 23;
   D.; Bliss
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Pred. No. 1.2e
11; Mismatches
                          03-Feb-1994 #text_change 09-Jul-2004
   Jr.,
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PMID:7836447
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   D.P.;
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les 24;
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                                                            RESULT
B46435
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A46435
Na+/K+-exchanging ATPase (EC 3.6.3.9) gamma chain - C;Species: Rattus norvegicus (Norway rat) C;Date: 31-Dec-1993 #sequence_revision 03-Feb-1994 #C;Accession: B46435; S31523
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Na+/K+-exchanging ATPase (EC 3.6.3.9) gamma chain - sheep (fragment)
N;Alternate names sodium pump gamma chain; sodium/potassium-dependent ATPase gamma chain; procession: Ovis orientalis aries; Ovis ammon aries (domestic sheep)
C;Date: 22-Nov-1993 #sequence revision 05-Dec-1998 #text_change 09-Jul-2004
C;Accession: A46435; S31524; A27383
C;Accession: A46435; S31524; A27383
C;Mercer, R.W.; Blemesderfer, D.; Bliss Jr., D.P.; Collins, J.H.; Forbush III, B.
J. Cell Biol. 121, 579-586, 193
A;Title: Molecular cloning and immunological characterization of the gamma polypeptide,
A;Reference number: A46435; MUID:93252993; PMID:8387529
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      J. Cell Biol. 121, 579-586, 1993
A;Title: Molecular cloning and immunological characterization of the gamma polypeptide, A;Reference number: A46435; MUID:93252993; PMID:8387529
A;Accession: D46435
A;Status: preliminary
A;Molecule type: mRNA
A;Residues: 1-58 <MER>
                                                                                                                                                                                           A;Molecule type: protein
A;Residues: 1-19,'F',21-33 <COL>
A;Cross-references: UNIPARC:UPI000017CC98
C;Complex: heterotrimer; alpha, beta, and
C;Keywords: heterotrimer; hydrolase; trans
                                                                                                                                                                                                                                                                                                                 R;Collins, J.H.; Leszyk, J.
Biochemistry 26, 8665-8668, 1987
Biochemistry 26, 8665-8668, 1987
A;Title: The "gamma-subunit" of Na,K-ATPase: a small, amphiphilic A;Reference number: A27383; MUID:88163544; PMID:2831947
A;Accession: A27383
                                                                                                                                                                                                                                                                                                                                                                                                                               A; Molecule type: mRNA
A; Residues: 6-19, 'F', 21-53 < MEW >
A; Cross-references: UNIPARC: UPI000016C4B7; EMBL: X70061; NID: g1255; PIDN: CAA49665.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        R;Mercer, R.W.
submitted to the EMBL Data Library,
A;Description: Cloning and sequencin
A;Reference number: S31522
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              A;Cross-references: UNIPROT:Q04645; UNIPARC:UPI00001262A7; EMBL:X70059; A;Note: the authors translated the codon TTC for residue 25 as Pro C;Keywords: hydrolase; transmembrane protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          A; Note: sequence extracted from
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          A; Experimental source: kidney
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A; Residues: 6-53 < MER>
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Best Local :
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Best Local Similarity
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                                           DDPFYYDWKNLQLSGLICGGLLAIAGIAAVLSGKCKYKSSQKQHSPVPEKAI 78
EDPFYYDYETVRNGGLIPAALAFIVGLVIILSKRFRC-GAKKKHRQIPEDGL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   EDPFYYDYETVRNGGLIFAALAFIVGLVIILSKRFRC-GAKRQHRQIPEDGL
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Pred. No. 0.00092;
                                                                                                                   Score 94.5; DB 2
Pred. No. 0.0014;
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#text_change 09-Jul-2004

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K;Mercer, R.W.; Biemesderfer, D.; Bliss Jr., D.P.; Collins, J. Cell Biol. 121, 579-586, 1993
A;Title: Molecular cloning and immunological characterization A;Reference number: A46435; MUID:93252993; PMID:8387529
A;Accession: B46435
                                                                                                                                                                                                                                                                                                                                                                                                 C;Species: Synechocystis sp.
A;Variety: PCC 6803
C;Date: 10-Sep-1999 #sequence revision 10-Sep-1999 #text_change 09-Jul-2004
C;Accession: A61088; S76298; S15474
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   R;Mercer, R.W.; Biemesderfer, D.; Bliss Jr., D.P.; Collins, J.H.; Forbush III, B. J. Cell Biol. 121, 579-586, 1993
A;Title: Molecular cloning and immunological characterization of the gamma polypeptide, A;Reference number: A46435; MUID:93252993; PMID:8387529
A;Accession: C46435
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C46435
C46435
Na+/K+-exchanging ATPase (EC 3.6.3.9) gamma chain - mouse
Na+/K+-exchanging ATPase (EC 3.6.3.9) gamma chain - mouse
C;Species: Mus musculus (house mouse)
C;Date: 31-Dec-1993 #sequence revision 03-Feb-1994 #text_change 09-Jul-2004
C;Accession: C46435; S31522
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                    A,Reference number: S74322; MUID:97061201; A,Accession: S76298. A,Status: preliminary
                                                                                                                                        A;Cross-references: UNIPROT:P27589; UNIPARC:UPI0000131690; EMBL:X58522; NID:g47376; PIDN R;KAneko, T.; Sato, S.; Kotani, H.; Tanaka, A.; Asamizu, E.; Nakamura, Y.; Miyajima, N.; o, K.; Okumura, S.; Shimpo, S.; Takeuchi, C.; Wada, T.; Watanabe, A.; Yamada, M.; Yasuda DNA Res. 3, 109-136, 1996
                                                                                                                                                                                                                                                                                          A;Title: Construction of insertion mutants of Synechocystis sp. A;Reference number: A61088; MUID:92272582; PMID:1590707 A;Accession: A61088
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  plastoquinol-plastocyanin reductase (EC 1.1
N;Alternate names: cytochrome b6-f complex
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A;Molecule type: mRNA
A;Residues: 1-58 <MER>
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                                                                                                                                                                                                                                          A;Molecule type: DNA
A;Residues: 1-160 <OSI>
                                                                                                                                                                                                                                                                                                                                                                  Arch. Microbiol. 157, 336-342, 1992
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16; Conserv
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lex chain IV; plastoquinol-plastocyanin
                                                                     PMID:8905231
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                                                                                                                 cyanobacterium Synechocysti
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                                                                                                                   RESULT 11
AH0371
               probable membrane protein YPO3057 [imported] - Yersinia pestis (strain C;Species: Yersinia pestis
C;Date: 02-Nov-2001 #sequence_revision 02-Nov-2001 #text_change 09-Jul-C;Accession: AH3371
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R;Parkhill,
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Wren,

B.W.; Thomson,

N.R.; Titball,

R.W.; Holden,

M.T.G.; Prentice,

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#text_change 09-Jul-2004

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R;Kunst, F; Ogasawara, N; Moszer, I; Albertini, A.M.; Alloni, G.; Azevedo, V.; Berter C.; Bron, S.; Brouillet, S.; Bruschi, C.V.; Caldwell, B.; Capuano, V.; Carter, N.M.; Cho A.; Ehrlich, S.D.; Emmerson, P.T.; Entian, K.D.; Errington, J.; Fabret, C.; Ferrari, E. Nature 390, 249-256, 1997

A;Authors: Foulger, D.; Fritz, C.; Fujita, M.; Fujita, Y.; Fuma, S.; Galizzi, A.; Galler iech, J.; Harwood, C.R.; Henaut, A.; Hilbert, H.; Holsappel, S.; Hosono, S.; Hullo, M.F. Koetter, P.; Koningstein, G.; Krogh, S.; Kumano, M.; Kurita, K.; Lapidus, A.; Lardinois, A.; 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      A;Residues: 1-160 <KAN> A;Residues: 1-160 <KAN> A;Cross-references: UNIPARC;UPI0000131690; EMBL;D64000; GB:\lambdaB001339; NID:g1001484; A;Note: the nucleotide sequence was submitted to the EMBL Data Library, June 1996 C;Genetics:
                                                                                                                                                                                                                                                                                                                                                                                                                                     A;Gene:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    A; Experimental source: strain 168
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A; Residues: 1-529 < KUN>
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C;Species: Bacillus subtilis
C;Date: 05-Dec_1997 #sequence_revision
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Keywords: oxidoreductase; photosynthesis; thylakoid
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-SAVLR-----KSSHEQNGPSYNESECLPVYEAIKLYTEGSA 475
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                                                                                                                                                                                                                  ALEANDPFANKDDPFYYD------WKNLQLSGLICGG------LLAIAG 52
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Pred. No. 1.4;
9; Mismatches
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                                                                                                                                                                                                                                                                                                                   Score 71; DB
Pred. No. 6.2;
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                                                                      -VP-EKAIPLITPGSA
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R;Shirai, M.; Hirakawa, H.; Kimoto, M.; Tabuchi, M.; Kishi, Nucleic Acids Res. 28, 2311-2314, 2000
A;Title: Comparison of whole genome sequences of chlamydia A;Reference number: A86491; MUID:20330349; PMID:10871362
A;Accession: B86620
                                                                                                                               chorismate synthase [imported] - Chlamydophila pneumoniae (strain J138) C;Species: Chlamydophila pneumoniae, Chlamydia pneumoniae C;Date: 02-Mar-2001 #sequence_revision 02-Mar-2001 #text_change 09-Jul-C;Accession: B86620
                                                                                                                                                                                                                      RESULT
B86620
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A;Title: Chloroplast gene organization deduced from complete sequence of A;Reference number: A38014
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  hypothetical protein 135 - liverwort (Marchantia polymorpha) chloroplast C;Species: chloroplast Marchantia polymorpha C;Date: 05-Jun-1987 #sequence_revision 05-Jun-1987 #text_change 09-Jul-2004 C;Accession: S01571; A05009
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A; Residues: 1-135 < UME>
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J. Mol. Biol. 203, 299-331, 1988
A., Title: Structure and organization of Marchantia polymorpha
A. Pafarence number: S01567; MUID:89068686; PMID:2974085
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A; Residues: 1-150 < KUR>
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                                                                                                                                                                                                                                                                                                    VTLAILILIAIRITPINS-----FFPW--VEKYGITIGVLILTIGVMAPIASG--K 72
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             VTLALLLLAGLTALEANDPFANKDDPFYYDWKNLQLSGLICGGLLAIAGI-AAVLSGKCK 62
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ilarity 32.6%;
Conservative 1
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11; Mismatches
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Pred. No. 2.7;
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M.; Skelton,
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J.; Stevens, K.; Whitehead, S
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                                                                                                            F.; Ouchi, K.; Shiba,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   sequence of
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Umesono, K.; Shi
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Barrell,
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potassium channel KCNA3 - human
N/Alternate names: potassium channel HLK3; potassium channel PCN
C;Species: Homo sapiens (man)
C;Date: 07-Apr-1994 #sequence revision 07-Apr-1994 #text_change
C;Accession: A38101; B38556; T52990
R;Attali, B.; Romey, G.; Honore, E.; Schmid-Alliana, A.; Mattei,
                                                                                                                               A38101
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A;Title: Genome sequences of Chlamydia trachomatis MoPn and A;Reference number: A81500; MUID:20150255; PMID:10684935 A;Accession: D81536
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A;Title: Comparative genomes of Clamydia pneumoniae and C. trachomatis. A;Reference number: A72000; MUID:99206606; PMID:10192388
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A;Cross-references: UNIPROT:Q9Z6M2;
A;Experimental source: strain J138
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A; Residues: 1-35
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A; Residues: 1-359 < REA>
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Best Local
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Best Local
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                                                                                                                                                                ALMSIPAAKGFEIGKGFASAOMRGSQYTDPFVMEGENITLKSNNCGGTLGGITIGVPIEG
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Pred. No. 13;
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A;Cross-references: GDB:128079; OMIM:176263
A;Map postion: 1p21-1p13.3
C;Superfamily: potassium channel protein drk1
C;Keywords: glycoprotein; phosphoprotein; potassium channel; transmembrane protein; volt
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A; Molecule type: DNA
A; Residues: 1-19, 'G',21-36,'V',38-60,'L',62-90,'V',92-337,'S',339-418,'S',420-457,'LS',4
A; Cross-references: UNIPARC: UPI00001779F2; GB: M55515
R; Cai, Y.C.; Osborne, P.B.; North, R.A.; Dooley, D.C.; Douglass, J.
DNA Cell Biol. 11, 163-172, 1992
A; Title: Characterization and functional expression of genomic DNA encoding the human ly
A; Reference number: 152990, MUID: 92189730; PMID: 1547020
A; A; Accession: 152990
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A;Title: Cloning, functional expression, and regulation of two K(+) channels in human T
A;Raference number: A38101; MUID:92235098; PMID:1373731
A;Accession: A38101
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A; Residues: 1-523 < ATT>
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A;Residues: 1-60,'L',62-523 <RES>
A;Cross-references: UNIPARC:UPI0000001C29; GB:M38217; NID:g186670; PIDN:AAB88073.1; PID
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A;Title: Sequence and functional expression in Xenopus oocytes of a human insulinoma and A;Reference number: A38556; MUID:91095456; PMID:1986382
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Q7U8Y3 SYNPX
Q4RY66 TETNG
Q82Q36 STRAW
Q85P51 CUCUP
Q864R3 CANFA
Q664R3 CANFA
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SEM6B MOUSE
SEM6B HUMAN
SEM6B RAT
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Q8BD7 MOUSE
Q8BD7 MOUSE
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DE ENATYOLS, Metazoa; Chordata; OC
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RN MEDLINB-22887296; PubMed=12975309; DOI=10.1101/gr.1293003;

RA Clark H.F., Gurney A.L., Abaya E., Baker K., Baldwin D.T., Brush J.,

RA Chen J., Chow B., Chui C., Crowley C., Currell B., Deuel B., Dowd P.,

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RA Huang A., Kim H.S., Klimowski L., Jin Y., Johnson S., Lee J.,

RA Lewis L., Liao D., Mark M.R., Robbie E., Sanchez C., Schoenfeld J.,

RA Seshagiri S., Simmons L., Singh J., Smith V., Stinson J., Vegts A.,

RA Vandlen R.L., Watanabe C., Wieand D., Woods K., Xie M.-H.,

Vandlen R.L., Watanabe C., Wieand D., Woods K., Xie M.-H.,

RA Vansura D.G., Yi S., Yu G., Yuan J., Zhang M., Zhang z., Goddard A.D.,

RA Wood W.I., Godowski P.J., Gray A.M.,

"The secreted procein discovery initiative (SPDI), a large-scale

effort to identify novel human secreted and transmembrane proteins: a

RT bioinformatics assessment.";

RR GHOME Res. 13:2265-2270(2003).

RR HGNC: HGNC:4028; FXYD4.

DR RMBL; AN358549; AA08897.1; -; mRNA.

BR GO; GO:0005216; Fion channel activity; IEA.

GO; GO:0005216; Fion channel activity; IEA.

GO; GO:0005216; Fion transport; IEA.

DR GO; GO:0005216; Fion transport; IEA.

DR GO; GO:0005216; Fion transport; IEA.

DR FEam; PRO20130; APP1G1 PLM MAT8; 1.

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RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RA Brownstein M.J., Uddin T.B., Toshiyuki S., Carninci P., Prange C.,
RA Brownstein M.J., Uddin T.B., Toshiyuki S., Carninci P., Prange C.,
RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
RA Rosak S.A., McEwan P.J., McKernan K.J., Mala J.A., Gunaratne P.H.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gaby L.J., Hulyk S.W.,
Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Fahey J., Helton E., Ketteman M., Madan A., Rodrigues S., Sanchez A.,
RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA Buktesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
RA Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smailus D.E.,
RA Schnerzch A., Schein J.E., Jones S.J.M., Marra M.A.,;
"Generation and initial analysis of more than 15,000 full-length human
T and mouse cDNA sequences.";
"L proc. Natl. Acad Sci U c "
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10-OCT-2003
10-MAY-2005
FXYD domain-
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Strausberg R.L., I
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Mammalia; Eutheria;
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Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominidae;
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RA Yagi K., Tomaru Y., Hasegawa Y., Nogami A., Schonbach C., Gojobori T.,
RA Yagi K., Tomaru Y., Hasegawa Y., Nogami A., Schonbach C., Gojobori T.,
RA Baldarelli R., Hill D.P., Bult C., Hume D.A., Quackenbush J.,
RA Schriml L.M., Kanapin A., Matsuda H., Batalov S., Beisel K.W.,
RA Blake J.A., Bradt D., Brusic V., Chothia C., Corbani L.E., Cousins S.,
RA Gasterland T., Gariboldi M., Gissi C., Godzik A., Gough J.,
RA Grimmond S., Gustincich S., Hirokawa N., Jackson I.J., Jarvis E.D.,
RA Kanai A., Kawaji H., Kawasawa Y., Kedziereki R.M., King B.L.,
RA Kanai A., Kawaji H., Kawasawa Y., Kedziereki R.M., King B.L.,
RA Konagaya A., Kurochkin I.V., Lee Y., Lenhard B., Lyons P.A.,
RA Konagaya A., Kurochkin I.V., Lee Y., Lenhard B., Lyons P.A.,
RA Konajaya A., Kurochkin I.V., Lee Y., Lenhard B., Lyons P.A.,
RA Magashima T., Numata K., Okido T., Pavan W.J., Pertea G., Pesole G.,
RA Petrovsky N., Pillai R., Pontius J.U., Qi D., Ramachandran S.,
RA Petrovsky N., Fillai R., Pontius J.U., Qi D., Ramachandran S.,
RA Ravasi T., Reed J.C., Reed D.J., Reid J., Ring B.Z., Ringwald M.,
RA Sultana R., Takenaka Y., Taylor M.S., Teasdale R.D., Tomita M.,
RA Wilming L.G., Wanhaw-Boris A., Yanagisawa M., Yang I., Yang L.,
RA Wilming L.G., Wanhaw-Boris A., Yanagisawa M., Yang I., Yang L.,
RA Hirozane-Kishikawa T., Konno H., Nakamura M., Sakazume N., Sato K.,
RA Miraki R., Sakai K., Sasaki D., Shibata K., Shinagawa A.,
RA Miraki R., Washino M., Waterston R., Lander E.S., Rogers J.,
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A Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
A Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
A Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
A Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
A Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
A Bistenenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
A Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
A Stapleton M., Gudin T.B., Toshiyuki S., Carninci P., Prange C.,
A Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
BOBBAK S.A., MCEWAN P.J., MCKernan K.J., Malek J.A., Gunaratne P.H.,
A Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
A Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
A Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
A Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Euthoria; Euarchontoglires; Glires; Rodentia; Sciurognathi;
Muroidea; Muridae; Murinae; Mus.
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"Analysis of the mouse transcriptome based on functional annotation 60,770 full-length cDNAs.";
Nature 420:563-573(2002).
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                                                                                                                                                                                                                                                                                                                                             RESULT 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Best Loc
Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
                                                                                                                                                                                                                                                            Q63113;
15-JUL-1998
15-JUL-1998
10-MAY-2005
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TOPO DOM
TRANSMEM
TOPO DOM
SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smailus D.E., Schnerch A., Schein J.E., Jones S.J.M., Marra M.A.; "Generation and initial analysis of more than 15,000 full-length and mouse cDNA sequences.", Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903 (2002).
                                             NUCLEOTIDE SEQUENCE.
STRAIN-Wistar; TISSUE-Colon;
STRAIN-Wistar; TISSUE-T597086;
MEDLINE-95320221; PubMed-7597086;
Attali B., Latter H., Rachamim N., Garty H.;
"A corticosteroid-induced gene expressing an activity in Xenopus oocytes.";
Proc. Natl. Acad. Sci. U.S.A. 92:6092-6096(1)
                                                                                                                                                                 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurogna
Muroidea; Muridae; Murinae; Rattus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         EMBL; AF362729; AAK51508.1; -; Genomic_DNA.
EMBL; AK018728; BAB31372.1; -; mRNA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        This Swiss-Prot entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002)
-!- SUBCELLULAR LOCATION: Type I membrane protein
-!- SIMILARITY: Belongs to the FXYD family.
                                                                                                                                                                                                                                                    FXYD
                                                                                                                                                                                                                                                                                                                    FXYD4
                                                                                                                                                                                                                                                                                                                                 RAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SIGNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PROSITE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GO; GO:0005615; C:extracellular space; TAS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Ensemb]
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               use as long as
Capurro C.,
            TISSUE SPECIFICITY.
MEDLINE=97000648; PubMed=8843704;
                                                                                                                                                        NCBI_TaxID=10116
                                                                                                                                                                                                         Rattus norvegicus (Rat)
                                                                                                                                                                                                                          Name=Fxyd4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    MGI; MGI:1889005; Fxyd4.
                                                                                                                                                                                                                                      inducing factor)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   fam; PF02038; ATP1G1 PLM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         on transport;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               nterPro; IPR000272; FXYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Local
                                                                                                                                                                                                                                     UL-1998 (Rel. 36, Created)
UL-1998 (Rel. 36, Last sequence update)
UL-1998 (Rel. 47, Last annotation update)
AY-2005 (Rel. 47, Last annotation update)
domain-containing ion transport regulator 4 precursor cing factor) (CHIF) (Corticosteroid-induced protein).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                BC086918; AAH86918.1;
                                                                                                                                                                                                                                                                                                                    RAT
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                                                                                                                                                                                                                                                                                                                                                                                                         KCKYKSSQKQHSPVPEKAIPLITPGSATTC
                                                                                                                                                                                                                                                                                                                                                                                                                                      PS01310;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ENSMUSG00000004988; Mus
                                                                                                                                                                                                                                                                                                                                                                                     KCKCRRTHKP-SSLPGKATPLIIPGSANTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              88
Coutry N.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Conservative
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                                                                                                                                                                                                                                                                                                                    STANDARD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       EXYD; 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              9269 MW;
                                                 nduced gene expressing an 'IsK-like' occytes."; ci. U.S.A. 92:6092-6096(1995).
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59
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       66.7%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       channel;
 Bonvalet J.-P.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  MAT8;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 276.5;
Pred. No. 1.4e
8; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Cytoplasmic (Potential) 7EB0140941CFE926 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     regulator 4.
Extracellular
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FXYD domain-containing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         signal;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 mRNA.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            There are no restrictions o modified and this statement
 Escoubet B.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1.4e-21
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (Potential)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            19;
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 Garty H.,
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                                                                                                                                                                                   Sciurognathi;
                                                                               K+ channel
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                                                                                                                                                                                                                                                     (Channel
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FXYD3_N
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Best Local
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TRANSMEM
TOPO DOM
SEQUENCE
NUCLEOTIDE SEQUENCE.
STRAIN-EVB/N; TISSUB-Mammary gland;
MEDLINE-95060797; PubMed=7970700;
Morrison B.W., Leder P.;
"neu and ras initiate murine mammar
                                                                                                                                                                                                                                                                                        15-JUL-1998 (Rel. 36, Created)
15-JUL-1998 (Rel. 36, Last sequence update)
10-MAY-2005 (Rel. 47, Last annotation update)
FXYD domain-containing ion transport regulator 3 precursor (Chloride conductance inducer protein Mat-8) (Mammary tumor 8 kDa protein)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Farman N.; "Cellular localization and regulation of CHIF in kidney and "Cellular localization and regulation of CHIF in kidney and "T. Physiol. 271:C753-C762(1996).
-i- FUNCTION: Induces a potassium channel when expressed in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SIGNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    This
                                                                                                                                                           Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;
Muroidea; Muridae; Murinae; Mus.
                                                                                                                                                                                                                                                                                                                                                                                                                                  FXYD3_MOUSE
Q61835;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               8
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                                                                                                                                                                                                                                                                  Name=Fxyd3; Synonyms=Mat8,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   MOUSE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    OOCYTES.
SUBCELLULAR LOCATION: Type I membrane protein TISSUE SPECIFICITY: Selectively present in the
                                                                                                                                                                                                                                       musculus (Mouse).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GO:0005267; F:potassium channel prPro; IPR000272; FXYD.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            lung, choroid plexus, salivary glands, INDUCTION: By corticosteroids. SIMILARITY: Belongs to the FXYD family.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  transport;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   70998; Fxyd4.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PF02038; ATP1G1_PI
TE; PS01310; FXYD;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  l Similarity
56; Conser
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             long as its content is in no way modified and this statement
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 KCK---CRRNHTPSSLPEKVTPLITPGSAST
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59
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PLM MAT8; 1.
                                                                                                                                                                                                                                                                  Plml;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 256.5;
Pred. No. 1.9e
1; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Cytoplasmic (Potential). 5D0DE1FFC6B1BCCA CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               regulator 4.
Extracellular (Potential)
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       mammary
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FXYD domain-containing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Potential.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  signal;
                                                                                                                                                                                                                                                                                                                                                                                                                                                        PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          activity; IDA
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       tumors
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       that
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       share
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ion transport
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    genetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   87;
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    markers
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RX MEDLINE-22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;
RX Strausberg R.L., Peingold E.A., Grouse L.H., Derge J.G.,
RX Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA Hopkins R.F., Jordan H., Moore T., Max. S.I., Wang J., Hsieh F.,
RA Hopkins R.F., Jordan H., Moore T., Max., Rubin G.M., Hong L.,
RA Diatchenko L., Marusina K., Farmer AAA., Rubin G.M., Hong L.,
RA Diatchenko L., Marusina K., Farmer AAA., Rubin G.M., Hong L.,
RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
RA Brownstein M.J., McKernan K.J., Abramson R.D., Mullahy S.J.,
RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaraten P.H.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R. M.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R. M.,
"Generation and initial analysis of more than 15,000 full-length human
RT and mouse CDMA sequences.":
Query Match
Best Local S
Matches 52
                                                                  TOPO DOM
TRANSMEM
TOPO DOM
SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Leder P.;

"Mat-8, a novel phospholemman-like protein expressed in nuturnors, induces a chloride conductance in Xenopus oocytes.

J. Biol. Chem. 270:2176-2182(1995).

-I- FUNCTION: Induces a hyperpolarization-activated chlorication and the Xenopus oocytes. May be a modulator
                                                                                                                                                                                                                                                                                                                                        EMBL;
PIR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        This
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 generally absent in c-myc and int-2-initiated Oncogene 9:3417-3426(1994).
                                                                                                                                                                                                                                                                                                 PIR; S61552; S61552.
Ensembl; ENSMUSG00000057092; Mus musculus.
MGI; MGI:107497; Fxyd3.
                                                                                                                                                                                                                                                                                                                                                    EMBL; X93038; CAA63606.1; -; mRNA
EMBL; BC002039; AAH02039.1; -; mRN
EMBL; BC056223; AAH56223.1; -; mRN
                                                                                                                                                                                                                                                                                                                                                                                                                                         use
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Morrison B.W.,
                                                                                                                                                    CHAIN
                                                                                                                                                                    Transmembrane;
SIGNAL
                                                                                                                                                                                                     Chloride; Chloride channel;
                                                                                                                                                                                                                                      Pfam;
                                                                                                                                                                                                                                                                     GO; GO:0005615; C:extracellular space; GO; GO:0016021; C:integral to membrane;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        neu or ras oncoprotein.
-!- SIMILARITY: Belongs to the FXYD family.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MEDLINE=95138184; PubMed=7836447; DOI=10.1074/jbc.270.15.8571;
Morrison B.W., Moorman J.R., Kowdley G.C., Kobayashi Y.M., Jon
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                EXPRESSION.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NUCLEOTIDE SEQUENCE [LARGE
                                                                                                                                                                                                                      PROSITE; PS01310; FXYD; 1
                                                                                                                                                                                                                                    InterPro; IPR000272; FXYD
Pfam; PF02038; ATP1G1_PLM
                                                                                                                                                                                                                                                                                                                                                                                                                                    ween the Swiss Institute of Bioinformatics and the EMBL outstant European Bioinformatics Institute. There are no restrictions of as long as its content is in no way modified and this statement
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              mouse cDNA sequences.";
c. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Swiss-Prot entry is copyright. It is produced through een the Swiss Institute of Bioinformatics and the EN
 . Similarity 52; Conser
   Conservative
                                                                                   39
60
                                                                                                                                               ; Transport.
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             52.4%;
57.8%;
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                                                                                                                                                                                                                                                                                                                                                       -; mRNA.
                                                                regulator 3.
Extracellular (Potential).
Potential.
Cytoplasmic (Potential).
9CD61684B856E35D CRC64;
                                                                                                                                                                                                     Ion transport; Ionic channel; Signal;
               Score 241.5;
Pred. No. 7.5
                                                                                                                                                  FXYD domain-containing
                                                                                                                                                                     Potential
 Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     MRNA]
                                                                                                                                                                                                                                                                                        TAS
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 7.5e-18;
nes 24;
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                                  DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              expressed in human
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                                 Length
 Indels
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                                                                                       Query Match
Best Local S
Matches 51
                                                                                                                                    TOPO DOM
TRANSMEM
TOPO DOM
SEQUENCE
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NUCLEOTIDE SEQUENCE.

Lee N.H., Glodek A., Chandra I., Mason

Kerlavage A.R., Adams M.D.;

Kerlavage (FEB-1998) to the EMBL/GenBar
                                                                                                                                                                                                          SIGNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                cDNA sequence, protein signature sequence,
Genomics 68:41-56(2000).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 P59645;
10-OCT-2003 (Rel. 42, Created)
10-OCT-2003 (Rel. 42, Last sequence update)
10-MAY-2005 (Rel. 47, Last annotation update)
FXYD domain-containing ion transport regulator 3
                                                                                                                                                                                                                                                               EMBL; AA801365; -; NOT_ANNOTATED_CDS; mRNA.
Ensembl; ENSRNOG00000021095; Rattus norvegicus
                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sweadner K.J.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;
Muroidea; Muridae; Murinae; Rattus.
MCBI_TaxID=10116;
                                                                                                                                                                                                                                                                                                                                     between
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MEDLINE=20408885; PubMed=10950925;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RECONSTRUCTION FROM
                                                                                                                                                                                                                   PROSITE; PS01310; FX
                                                                                                                                                                                                                                          Name=Fxyd3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FXYD3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Rattus norvegicus (Rat).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RAT
                                                                                                                                                                                                                                                      nterPro;
                                                                                                                                                                                                                                                                                                                                                                     FUNCTION: Induces a hyperpolarization-activated chloride curre when expressed in Xenopus oocytes. May be a modulator capable activating endogenous oocyte channels.
SUBCELLULAR LOCATION: Type I membrane protein (Potential).
SIMILARITY: Belongs to the FXYD family.
                                                                                                                                                                                                                                                                                                                88
                                                                                                                                                                                                                                                                                                                           European
                                                                                                                                                                                                                                                                                                                        Swiss-Prot entry is copyright. It is produced through a collaboration een the Swiss Institute of Bioinformatics and the EMBL outstation -
European Bioinformatics Institute. There are no restrictions on its
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                                                                                                   Similarity
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                    KCKYKSSOKOHSPVPEKAIPLITPGSATTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           KCKCKFRQKP-SHRPGEGPPLITPGSAHNC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               KCKYKSSQKQHSPVPEKAIPLITPGSATTC
 KCKCKFSQKP-SHRPGDGPPLITPGSAHNC
                                                                                                                                                                                                                                                     IPR000272;
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39
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7 AA,
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                                                                                                                                                                                                                                                                                                               as its content is in no way modified and this statement
                                                                                         Conservative
                                                                                                                                                                                           21
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                                                                                                                                                                                                                             FXYD; 1
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                                                                                                                                                                                                                                                       FXYD
                                                                                                                                                                                                                    channel; Signal; Transmembrane;
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Σ
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AND CONCEPTUAL TRANSLATION.
                                                                                         10;
                                                                                                 Score 234.5; DB 1
Pred. No. 4.2e-17;
                                                                                                                                     Cytoplasmic (Potential).
45AFE872FD1AF944 CRC64;
                                                                                                                                                                     regulator 3.
Extracellular (Potential)
                                                                                                                                                            Potential
                                                                                                                                                                                           FXYD domain-containing ion transport
                                                                                                                                                                                                        Potential
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                                                                                         Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                         transport re
equence, and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DOI=10.1006/geno.2000.6274;
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                                                                                                            DB 1;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                    regulators or channels:
                                                                                                                                                                                                                                                                                                                                                                                                                                         expression.";
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                                                                                                             Length
                                                                                         Indels
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                                                                                                                                                                                                                  Transport.
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                                                                                         Gaps
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B35585

precursor (Chloride

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FRESULT FRESUL
                                                                                                                                                             RESULT 9
FXYD3_HUM
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Best Local S
Matches 52
FXYD3 HUMAN STANDARD;
Q14807; Q13211;
15-UUL-1998 (Rel: 36, Created)
15-UUL-1998 (Rel: 36, Last sequence update)
10-MAY-2005 (Rel: 47, Last annotation update)
10-MAY-2005 (Rel: 47, Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TOPO DOM
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TOPO DOM
SEQUENCE
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FXYD3 P:
097797;
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FXYD domain-containing ion transport regulator 3 precursor (Chlor conductance inducer protein Mat-8) (Mammary tumor 8 kDa protein).
Name=FXYD3; Synonyms=MAT8;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CHAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    EMBL; AB015759; BAA35078.1; -; mRNA. InterPro; IPR000272; FXYD. Pfam; PF02038; ATP1G1_PLM_MAT8; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            This Swiss-Prot entry is copyright. It is produced through between the Swiss Institute of Bioinformatics and the Eventhe European Bioinformatics Institute. There are no restr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         activating endogenous oocyte channels.
-!- SUBCELLULAR LOCATION: Type I membrane protein (Potential).
-!- SIMILARITY: Belongs to the FXYD family.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   of their genes.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Maeda M., Hamano K., Hirano Y., Suzuki M.,
Futai M., Sato R.,
"Structures of P-type transporting ATPases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TISSUE=Gastric mucosa;
MEDLINE=99140476; PubMed=10206733;
Maeda M., Hamano K., Hirano Y., Su
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sus scrofa (Pig).
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28-FEB-2003 (Rel.
10-MAY-2005 (Rel.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PROSITE; PS01310; FXYD; 1. Chloride; Chloride channel;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    removed
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NUCLEOTIDE SEQUENCE.
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                                                                                                                                                                  HUMAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ransmembrane;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            IGNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FUNCTION: Induces a hyperpolarization-activated chloride current when expressed in Xenopus oocytes. May be a modulator capable of
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                                                                                                                                                                                                                                                                                          KCKYKSSQKQHSPVPEKAIPLITPGSATTC
                                                                                                                                                                                                                                                                                                                                                                                        MERVTLA-LLILAGLTALEANDPFANKDDPFYYDWKNLQLSGLICGGLLAIAGIAAVLSG
                                                                                                                                                                                                                                                               KCKCKFSQKP-SHRPGDAPPLITPGSAHDC
                                                                                                                                                                                                                                                                                                                                                        MHEVALSVLILLAGISALDANDP-EDKNSPFYYDWHSLRVGGLICAGTPCALGIIILLSG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  88
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39
60
3A,
                                                                                                                                                                                                                                                                                                                                                                                                                                                     Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Funct. 23:315-323(1998).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                     10;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Ion transport;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 230.5;
Pred. No. 1.1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Cytoplasmic (Potential). 6CC7810B90512E5A CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FXYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Extracellular (Potential)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Potential.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             regulator
                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 domain-containing
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                                                                                                                                                                                                                                                                                                                                                                                                                                                     25;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           channel;
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A Strausberg R.L., Peingold E.A., Grouse L.H., Derge J.G.,

A Klausner R.D., Collins F.S., Wagner L., Shemmen C.M., Schuler G.D.,

A Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,

A Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Haieh F.,

A Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Haieh F.,

A Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Haieh F.,

A Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Haieh F.,

A Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Haieh F.,

A Hopkins R.F., Jordan H., Moore T., Rabin G.M., Hong L., Scheetz T.E.,

A Hopkins R.F., Jordan H., Moore T., Rabin G.M., Hong L., Scheetz T.E.,

A Roha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,

A Roha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,

A Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,

A Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,

Pahey J., Helton E., Ketteman M., Madan A., Rodrigues S., Sanchez A.,

A Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,

A Hakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,

A Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smailus D.E.,

RA Rodriguez A.C., Grimwood J., Schmutz J., Marra M.A.,

"Generation and initial analysis of more than 15,000 full-length huma
                                        888¥
                                                                                                                                                                                                                                                                                                                                                                                                                                                                This
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TISSUE-Mammary gland;
MEDLINE-95138184; PubMed=7836447; DOI=10.1074/jbc.270.15.89
Morrison B.W., Moorman J.R., Kowdley G.C., Kobayashi Y.M.,
                                                                                                                                             H-InvDB;
                                                                                                                                                                                                                      EMBL; X93036; CAA63604.1; -;
EMBL; U28249; AAA73922.1; -;
EMBL; BC005238; AAH05238.1;
PIR; A55571; A55571.
                                                                                                                                                                                                                                                                                                                                                                                    use
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Mammalia; Eutheria;
                                                                                                                                                                        HGNC; HGNC
                                                                                                                                                                                                                                                                                                                                                           removed.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NUCLEOTIDE SEQUENCE [LARGE SCALE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          "Mat-8,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Homo
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              conductance
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Biol.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            mouse cDNA sequences.";

(. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).

FUNCTION: Induces a hyperpolarization-activated chloride when expressed in Xenopus occytes. May be a modulator cap activating endogenous occyte channels.

SUBCELLULAR LOCATION: Type thembrane protein (Potential) TISSUE SPECIFICITY: Expressed in a subset of human breast MISCELLANEOUS: Marker of a cell type preferentially trans
; 604996; -.
GO:0005887; C:integral to plasma membrane; TA:
GO:0008254; F:chloride channel activity; TAS.
GO:0006821; F:chloride transport; TAS.
erPro; IPR000272; FXYD.
                                                                                                                                                                                                                                                                                                                                                                                    88
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              neu or ras oncoprotein.
SIMILARITY: Belongs to the FXYD family.
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induces a chloride conductance in )
. Chem. 270:2176-2182(1995).
                                                                                                                                                                                                                                                                                                                                                                                                                                  the
                                                                                                                                                                     ENSG00000089356;
NC:4027; FXYD3.
                                                                                                                                             HIX0018290;
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                                                                                                                                                                                                                                                                                                                                                                                                         rot entry is copyright. It is produced through a community is copyright. It is produced through a Swiss Institute of Bioinformatics and the EMBL Bloinformatics Institute. There are no restrict
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PubMed=12477932; DOI=10.1073/pnas.242603899,
Feingold E.A., Grouse L.H., Derge J.G.,
                                                                                                                                                                                                                                                                                                                                                                                    content
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                                                                                                                                                                                                                                                                                                                                                                                 modified and
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Y transformed by
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Mullahy S.J.,
ratne P.H.,
Hulyk S.W.,
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capable of
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                                                                                                                                                                                                                                                                                                                                                                                 statement
                                                                                                                                                                                                                                                                                                                                                                                                                                                       a collaboration
                                                                                                                                                                                                                                                                                                                                                                                                                                  outstation
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Best Local S
Matches 48
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05-JUL-2004
10-MAY-2005
TISSUE=White Matter pool- 5 brain tissues- femoral artery;
MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;
Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
                                                                                                                                                                                                                                                           Phelan M., F
"Cloning of
vector ":
                                                                                                                                                                                                                                                                                                                                                                                                  Halleck A., Ebert L.,
Neubert P., Kstrang K
Korn B., Zuo D., Hu Y
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TOPO DOM
TRANSMEM
TOPO DOM
CONFLICT
                                                                                                                                                                                                                                                                                                        Kalnine N., Chen X., F
Koundinya M., Raphael
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NUCLEOTIDE SEQUENCE.
Ebert L., Schick M.,
Submitted (JUN-2004)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Homo sapiens (Human)
Eukaryota; Metazoa;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Q6IB59_HUMAN
Q6IB59;
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SIGNAL 1 20
CHAIN 21 87
                                                                                                                                                                                            NUCLEOTIDE SEQUENCE.
                                                                                                                                                                                                                                 Submitted
                                                                                                                                                                                                                                                                                                                                               NUCLEOTIDE SEQUENCE.
                                                                                                                                                                                                                                                                                                                                                                                      Submitted (JUN-2004)
                                                                                                                                                                                                                                                                                                                                                                                                                                                             NUCLEOTIDE SEQUENCE.
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Chloride; Chloride channel; Ion
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NCBI_TaxID=9606;
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                                                                                                                                                                                                                                 (MAY-2003)
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                                                                                                                                                                                                                                                                                      Farmer
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(TrEMBLrel. 27, Last sequence update)
(TrEMBLrel. 30, Last annotation update)
in (FXYD domain containing ion transport
                                                                                                                                                                                                                                                                    human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Conservative
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full-length CDSs
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87
37
58
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to the E
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K., Schatten |
Y., LaBaer J.
to the EMBL/
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Moreira D., F
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Cytoplasmic
Missing (in |
S -> SEWRSSG|
2).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                P., Schatten R., EMBL/GenBank/DDBJ
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Pred.
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Kelley T.,
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.es 24;
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LaBaer J., Lin
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RESULT : CONTROL RESULT
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IX MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;

IX Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,

IX Klausner R.D., Collins F.S., Wagner L., Schaefer C.F., Bhat N.K.,

IX Altechul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,

IX ALLECHUL S.F., Jordan H., Moore T., Max S.I., Wang J., Hsich F.,

IX ALLECHUL S.F., Jordan H., Moore T., Max S.I., Wang J., Hsich F.,

IX ALLECHUL S.F., Jordan H., Moore T., Max S.I., Wang J., Hsich F.,

IX ALLECHUL S.F., Jordan H., Moore T., Max S.I., Wang J., Hong L.,

IX ALLECHUL S.F., Jordan B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,

IX ALLECHUL S.F., Jordan B., Toshiyuki S., Carninci P., Prange C.,

IX ALLECHUL S.F., JORDAN S. J., Morenson R.D., Mullahy S.J.,

IX ALLECHUL S.F., Marylan B.J., McKernan K.J., Malek J.A., Gunaratne P.H.,

IX ALLECHUL S.F., Morley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,

IX ALLECHUL S.F., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
Best Local S
Matches 48
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A Director MGC Project;
L Submitted (FEB-2005) to the EMBL/GenBank/DDBJ databases.
R EMBL; CR456945; CAG33226.1; -; mRNA.
R EMBL; CR542197; CAG46994.1; -; mRNA.
R EMBL; BT006712; AAP35358.1; -; mRNA.
R EMBL; BT006712; AAP35358.1; -; mRNA.
R EMBL; BC090044; AAP90044.1; -; mRNA.
R EMBL; BC090044; AAP90044.1; -; mRNA.
R GO; GO:0016020; C:membrane; IEA.
R GO; GO:0005216; F:ion channel activity; IEA.
R GO; GO:0005216; P:ion transport; IEA.
R GO; GO:0005216; P:ion tran
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UV3 MOUSE
QBOUV3 MOUSE PRELIMINARY;
QBOUV3;
QBOUV4;
Q1-JUN-2003 (TrembLrel. 24,
Q1-JUN-2003 (TrembLrel. 24,
Q1-OCT-2003 (TrembLrel. 25,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     villalon D.K., Muzmy D.M., Sodergren E.J., Lu X., Gibbs R.A., Fahey J., Helton E., Ketteman M., Wadan A., Rodrigues S., Sanchez A., Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G., Blakeeley R.W., Touchman J.W., Green E.D., Dickson M.C., Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smailus D.E., Schnerch A., Schein J.E., Jones S.J.M., Marra M.A.; "Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Eukaryota; Metazoa; Cl
Mammalia; Eutheria; Eu
Muridae; Murinae; Mus.
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Name=Fxyd3;
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Pred. No. 5.
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GO; GO:0016020; C:membrane; IBA.
GO; GO:0005216; F:ion channel activity; IE
GO; GO:0006811; P:ion transport; IEA.
InterPro; IPR00272; FXYD.
Pfam; PF02038; ATPIGI PLM MAT8; 1.
PROSITE; PS01310; FXYD; 1.
SEQUENCE 70 AA; 7773 MW; AB2A5EAF1490B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            O00168;
15-UUL-1998 (Rel. 36, Created)
28-FEB-2003 (Rel. 41, Last sequence update)
10-MAY-2005 (Rel. 47, Last annotation update)
10-MAY-2005 (Rel. 47, Last annotation update)
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NUCLEOTIDE SEQUENCE [LARGE SCALE MRNA].
TISSUE=Brain, Lung, and Testis;
MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;
Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
                                                                                                                                                                                                                                                                                                               Chen L.-S.K., Lo C.F., Numann R., C
"Characterization of the human and
localization of the human PLM gene
Genomics 41:435-443(1997).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Submitted (APR-2003) to the
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                                                                                                                                                                                                           Sweadner K.J., Rael
                                                                                                                                                                                                                                 NUCLEOTIDE SEQUENCE.
MEDLINE=20408885; PubMed=10950925; DOI=10.1006/geno.2000.6274.
                                                                                                                                                                                                                                                                                                                                                                                                                       MEDLINE=97312702;
                                                                                                                                                                                                                                                                                                                                                                                                                                                TISSUE=Heart
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NUCLEOTIDE SEQUENCE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Homo sapiens (Human)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Name=FXYD1; Synonyms=PLM;
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                                                                                                                              sequence, protein signature nics 68:41-56(2000).
                                                                                                                                                                                 iner K.J., Rael E.;
FXYD gene family of small ion transport regulators or channels:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominidae;
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Pred. No. 7.6e
10; Mismatches
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                                                                                                                                                        sequence,
                                                                                                                                                                                                                                                                                                                                       Cuddy M.;
id rat phosp
ie to chromo
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Matches 26
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                                                                                                                                                                                                                                                                                                                  Phosphorylation;
SIGNAL 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    EMBL; U72245; AAC51286.1; -; mRNA.
EMBL; BC032800; AAH32800.1; -; mRNA.
Ensembl; ENSG00000126258; Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         the
                                                                                                                                                                                                                                                                                                                                                         Chloride;
                                                                                                                                                                                                                                                                                                                                                                                                         GO:0005887; C:integral to plasma membrane; TAS. GO:0005886; C:plasma membrane; NAS. GO:0005254; F:chloride channel activity; TAS. GO:0006252; F:chloride transport; TAS. GO:0006936; P:muscle contraction; TAS. GO:0006936; P:muscle contraction; TAS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PTM: Major plasma membrane substrate for cAMP-dependent protein kinase (PK-A) and protein kinase C (PK-C) in several different tissues (By similarity). Phosphorylated in response to insulin adrenergic stimulation.
SIMILARITY: Belongs to the FXYD family.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SUBCELLULAR LOCATION: Type I membrane protein.
TISSUE SPECIFICITY: Highest expression in skeletal muscle
heart. Moderate levels in brain, placenta, lung, liver, po
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               mouse cDNA sequences.";
c. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  heart. Moderate levels in brain, placenta, lung, liver, panounterus, bladder, prostate, small intestine and colon with mus lining. Very low levels in kidney, colon and small intestine without mucosa, prostate without endothelial lining, spleen,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FUNCTION: Induces a hyperpolarization-activated when expressed in Xenopus oocytes. May have a fi
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                                                          l Similarity
26; Conser
LTALEANDPFANKDDPFYYDMKNLQLSGLICGGLLAIAGIAAVLSGKCKYKSSQKQHSPV
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                                                            Conservative
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                                                                                                                                                                                                                                                                                                                                    Transmembrane;
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                                                      Score 129; DB
Pred. No. 7.8e
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                                                                                                                                                                                              Phosphoserine (by PKA and Phosphoserine (by PKA).
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Cytoplasmic
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Extracellular (Potential)
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                                                                                                                                                          Ref.
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functional
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Best Local S
Matches 29
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A Mauceli E., Bouneau L., Fischer C., Ozouf-Costez C., Bernot A.,
A Nicaud S., Jaffe D., Fisher S., Lutfalla G., Dossat C., Segurens B.,
A Dasilva C., Salanoubat M., Levy M., Boudet N., Castellano S.,
A Anthouard V., Jubin C., Castelli V., Katinka M., Vacherie B.,
Biemont C., Skalli Z., Cattolicc L., Youlain J., De Berardinis V.,
Cruaud C., Duprat S., Brottier P., Coutanceau J.P., Gouzy J.,
A Parra G., Lardier G., Chapple C., McKernan K.J., McEwan P., Bosak S.,
Kellis M., Volff JN., Guigo R., Zody M.C., Mesirov J.,
Kellis M., Volff JN., Guigo R., Zody M.C., Mesirov J.,
A Lindblad-Tok K., Birren B., Nuebaum C., Kahn D., Robinson-Rechavi M.,
A Laudet V., Schachter V., Quetier F., Saurin W., Scarpelli C.,
"Genome duplication in the teleost fish Tetraodon nigroviridis reveals
the early vertebrate proto-karyotype.";
Nature 431:946-957(2004).
                                                                                                                                                                                                                                                                                                                  CANFA
                                                                                                                             PLM CANFA
P56513;
15-JUL-1998
15-JUL-1998
13-SEP-2005
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G2_TETNG
Q4RFG2_1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      preliminary data.
EMBL; CAAE01015119; C
SEQUENCE 88 AA; 96
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Actihopterygii; Neopterygii; Teleostei; Eutel
Acanthomorpha; Acanthopterygii; Percomorpha;
Tetradontoidea; Tetraodontidae; Tetraodon.
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Rukarvota: Metazoa; Chordata; Craniata;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 13-SEP-2005 (TrEMBLrel. 31, Created)
13-SEP-2005 (TrEMBLrel. 31, Last sequence update)
13-SEP-2005 (TrEMBLrel. 31, Last annotation update)
13-SEP-2005 (TrEMBLrel. 31, Last annotation update)
Chromosome 8 SCAFI5119, whole genome shotgun sequence and the sequence of the s
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                         regulator 1).
Name=FXYD1; S
                                                                                                Phospholemman
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EMBL/GenBank/DDBJ whole
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                                                                                                                                                                                                                                                                                 STANDARD;
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48, Last
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9614 MW; 7067B36D3574AA13 C
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Euteleostei; Neoteleostei;
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RESULT 15
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local S
Matches 29
"Purification and complete sequence determination of membrane substrate for cAMP-dependent protein kinase kinase C in myocardium.";

J. Biol. Chem. 266:11126-11130(1991).

-I- FUNCTION: Induces a hyperpolarization-activated cluments of the myoresed in Xenopus oocytes. May have a function muscle contraction.

-I- SUBCELLIU AN ACTION TO A SUBCELLIU AN ACTION TO ACTI
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  This Swiss-Prot entry is copyright. It is produced through between the Swiss Institute of Bioinformatics and the Ewthe European Bioinformatics Institute. There are no restr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SIGNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Chloride,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              MEDLINE=91250422; PubMed=1710217
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PIR, A40533; A40533
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NUCLEOTIDE SEQUENCE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          and kidney.

PTM: Major plasma membrane substrate for cAMP-dependent protein kinase (PK-A) and protein kinase C (PK-C) in several different kinase (PK-A) and protein kinase to insulin and adrenergic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SUBCELLULAR LOCATION: Type I membrane protein. TISSUE SPECIFICITY: Present in heart, esophagu skeletal muscle, smooth muscle, and liver but
                                                                                                                                                                                                                                                                                                                                                                                                                                              9
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PS01310; FXYD; 1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       OKOHSPVPEK
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Chloride channel; Direct protein sequencing; nnel; Phosphorylation; Signal; Transmembrane;
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                                                                                                                                                                                                                                                                                                                                                                                                                                              75
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Pred. No. 1.4e
L5; Mismatches
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(Cytoplasmic (Potential).
Phosphoserine (by PKA and PKC)
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les 23;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PKA) (By similarity). CRC64;
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Transport.
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RGD; 6931
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NIH - Mammalian Gene Collection (MGC) project;
Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases.
-!- SUBCELLULAR LOCATION: Type I membrane protein (Potential).
-!- ALTERNATIVE PRODUCTS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              This Swiss-Prot entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation - the European Bioinformatics Institute. There are no restrictions on its use as long as its content is in no way modified and this statement is not
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             STRAIN=Sprague-Dawley; TISSUE=Hippo
MEDLINE=21105932; PubMed=11165386;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Mammalia; Eutheria; Euarchor
Muroidea; Muridae; Murinae;
NCBi_TaxID=10116;
                                                                                                                                                                                                                                                                                                                                                                                      CHAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                               InterPro; IPR000272; FXYD. Pfam; PF02038; ATP1G1 PLM PROSITE; PS01310; FXYD; 1. Alternative splicing; Ion
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               EMBL; AB030908; BAB62242.1; -; mRNA.
EMBL; AF142439; AAF66613.1; -; mRNA.
EMBL; BC072528; AAH72528.1; -; mRNA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TISSUE=Lung;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Yamaguchi F., Yamaguchi K., Tai Y., Sugimoto K., Tokuda M.; Molecular cloning and characterization of a novel phospholemman-like protein from rat hippocampus."; Brain Res. Mol. Brain Res. 86:189-192(2001).
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Aoki T., Toyo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NUCLEOTIDE SEQUENCE [LARGE SCALE MRNA] (ISOFORM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NUCLEOTIDE SEQUENCE (ISOFORM
                                                                                                                                                                                                                                                                                                                                                                                                            SIGNAL
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             IsoId=Q91XV6-2; Sequence=VSP 001586;
SIMILARITY: Belongs to the FXYD family
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                                                                                                                                                                         Similarity
CKCSFNQKPRAPGDEEAQVENLITTNAA
                                    CKYKSSQKQHSPVPEKA--IPLITPGSA
                                                                                                                MERVTLALLILIAGLTALEANDPFANKDDPFYYDWKNLQLSGLICGGLLAIAGIAAVLSGK
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                                                                            METVLILCSILAPVVLASAAEKEKEK-DPFYYDYQTLRIGGLVFAVVLFSVGILLILSRR
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ed=11165386; DOI=10.1016/S0169-328X(00)00213-8;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                 transport; Ionic channel; Signal;
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                                                                                                                                                                                                                                             Potential.
Cytoplasmic (Potential).
Missing (in isoform 2).
/FTId="USP_001586.
N -> S (in Ref. 2).
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                                                                                                                                                                         Score 124.5;
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Extracellular
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Search completed: December 14, 2005, 06:34:13 Job time : 234 $\mbox{\footnotesize Becs}$